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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,078	04/20/2001	Ping Sheng Zhang	29876/37280	2715
4743 75	. 03/12/2002			
MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN 6300 SEARS TOWER 233 SOUTH WACKER DRIVE			EXAMINER	
			MCDERMOTT, KEVIN	
			3635	
			DATE MAILED: 03/12/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

~		Q .			
•	Application No.	Applicant(s)			
	09/839,078	ZHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
•	McDermott, Kevin	3635			
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thin iod will apply and will expire SIX (6) MON tute. cause the application to become A	reply be timely filed  rty (30) days will be considered timely  NTHS from the mailing date of this communication.			
1) Responsive to communication(s) filed on _	·				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applicati	ion.				
4a) Of the above claim(s) is/are withdo					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and Application Papers	/or election requirement.				
9)☐ The specification is objected to by the Examir	ner.				
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	he Examiner.			
Applicant may not request that any objection to		, , ,			
11)☐ The proposed drawing correction filed on		isapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the E	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. §	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
<ol> <li>Certified copies of the priority document</li> </ol>	nts have been received.				
<ol><li>Certified copies of the priority documer</li></ol>	nts have been received in Ar	pplication No			
<ul> <li>3. Copies of the certified copies of the pri application from the International B</li> <li>* See the attached detailed Office action for a list</li> </ul>	Bureau (PCT Rule 17.2(a)).	·			
14) Acknowledgment is made of a claim for domes	·				
<ul> <li>a)  The translation of the foreign language present</li> <li>15)  Acknowledgment is made of a claim for domes</li> </ul>	rovisional application has be	een received			
Attachment(s)	. ,				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Notice of In	Summary (PTO-413) Paper No(s)  nformal Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Nelson.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Burlant.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips. However, Nelson does not disclose disposing acrylic urethane or aluminum oxide on wood flooring strips.

Burlant discloses in column 1, lines 31-40 and column 2, lines 11-34, providing wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion resistant coating. The vinyl monomer includes an acrylic monomer.

Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose a wood coating made of acrylic urethane on the wood boards 15 of Nelson. One of ordinary skill would have been motivated to make such a modification to increase the abrasion resistance of all of the wood board 15 faces.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Chen.

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Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second layer of a plurality of spaced strips. However, Nelson does not disclose disposing aluminum oxide on flooring strips.

Chen discloses disposing aluminum oxide on floor surfaces. Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to dispose aluminum oxide on the wood boards 15 of Nelson to increase the abrasion resistance of the flooring.

Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson in view of Burlant and further in view of Wu.

Nelson discloses in figures 1 and 2, and column 2, lines 20-40, a floor construction and assembly comprising wood boards 15 locked together using tongues 16 and grooves 17. As shown in Figure 1, the wood grain of wood boards 15 extends generally in the longitudinal direction of the board 15. The boards 15 are supported by and anchored to spaced sleepers 12. Figure 1 also shows the grain of the sleepers 12 being transverse to the direction of the wood boards 15. Examiner interprets wood boards 15 as the first layer of a plurality of strips, and spaced sleepers 12 as the second

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layer of a plurality of spaced strips. However, Nelson does not disclose disposing acrylic urethane on wood flooring strips or using bamboo flooring strips in lieu of wood.

Burlant discloses in column 1, lines 31-40 and column 2, lines 11-34, providing wood with a urethane resin and vinyl monomer coating to form a decorative or abrasion resistant coating. The vinyl monomer includes an acrylic monomer.

Wu discloses, in column 1, lines 14-15, a wooden or bamboo floor. Therefore, Examiner considers it obvious to one of ordinary skill in the art at the time the invention was made to make the wood boards 15 of Nelson from bamboo and to dispose a wood coating made of acrylic urethane on the wood boards 15. One of ordinary skill would have been motivated to make such a modification to increase the abrasion resistance of all of the wood board 15 faces.

# Response to Arguments

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Kevin McDermott, whose telephone number is 703-308-8266.

> Carl D. Friedman Supervisory Patent Examiner Group 3600

KM 3/5/02